

WHAT IS CLAIMED IS:

1. A multilayer optical filter comprising:
a substrate;
5 a multilayer film including a plurality of thin-films, alternately stacked on at least one face of the substrate, each containing corresponding dielectric materials having different refractive indexes; and
one or more adjusting layers for adjusting the
10 temperature shift of the wavelength of transmitted light.
2. The multilayer optical filter according to Claim 1, wherein the adjusting layer is directly placed on the substrate and the multilayer film is placed on the adjusting
15 layer.
3. The multilayer optical filter according to Claim 1, wherein the one or more adjusting layers contain the same material as that contained in at least one of high refractive
20 thin-films and low refractive thin-films included in the multilayer film.
4. The multilayer optical filter according to Claim 1, wherein a plurality of the adjusting layers are placed in the
25 multilayer film.
5. The multilayer optical filter according to Claim 1, wherein the one or more adjusting layers contain a material

different from that contained in the multilayer film.

6. The multilayer optical filter according to Claim 1,
wherein the one or more adjusting layers have a thickness of
5 5 to 50 μm .

7. The multilayer optical filter according to Claim 1,
wherein a plurality of the thin-films included in the
multilayer film contain two or more materials selected from
10 the group consisting of TiO_2 , SiO_2 , Ta_2O_5 , Al_2O_3 , ZrO_2 , Si,
 ZnS , HfO , Ge, Nd_2O_6 , Nb_2O_5 , and CeO_2 .

8. An optical component comprising the multilayer
optical filter according to Claim 1.